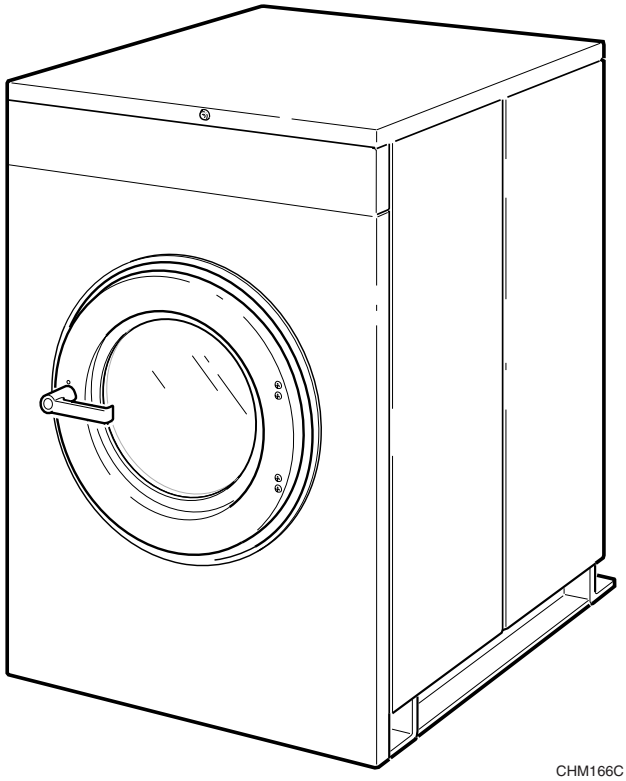
Washer-Extractors

Cabinet Hardmount
NetMaster Control

Refer to Page 3 for Model Identification



CHM166C

Operation/Maintenance

Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.comlaundry.com

Part No. F232136R5
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Introduction

Model Identification

Information in this manual is applicable to these models:

HC18NC2	HC80NRV	NC60NC2	SC35NC2
HC18NR2	HC80NXV	NC60NCF	SC35NR2
HC18NX2	NC18NC2	NC60NR2	SC35NX2
HC25NC2	NC18NP2	NC60NRF	SC40NC2
HC25NR2	NC18NR2	NC60NX2	SC40NR2
HC25NX2	NC18NX2	NC60NXF	SC40NX2
HC27NC2	NC25NC2	NC80NCV	SC50NC2
HC27NR2	NC25NP2	NC80NPV	SC50NR2
HC27NX2	NC25NR2	NC80NRV	SC50NX2
HC35NC2	NC25NX2	NC80NXV	SC60NC2
HC35NR2	NC27NC2	SC18NC2	SC60NCF
HC35NX2	NC27NP2	SC18NR2	SC60NR2
HC40NC2	NC27NR2	SC18NX2	SC60NRF
HC40NR2	NC27NX2	SC20NC2	SC60NX2
HC40NX2	NC35NC2	SC20NR2	SC60NXF
HC50NC2	NC35NP2	SC20NX2	SC80NCV
HC50NR2	NC35NR2	SC25NC2	SC80NRV
HC50NX2	NC35NX2	SC25NR2	SC80NXV
HC60NC2	NC40NC2	SC25NX2	UC60NC2
HC60NCF	NC40NR2	SC27NC2	UC60NCF
HC60NR2	NC40NX2	SC27NR2	UC60NR2
HC60NRF	NC50NC2	SC27NX2	UC60NRF
HC60NX2	NC50NP2	SC30NC2	UC60NX2
HC60NXF	NC50NR2	SC30NR2	UC60NXF
HC80NCV	NC50NX2	SC30NX2	

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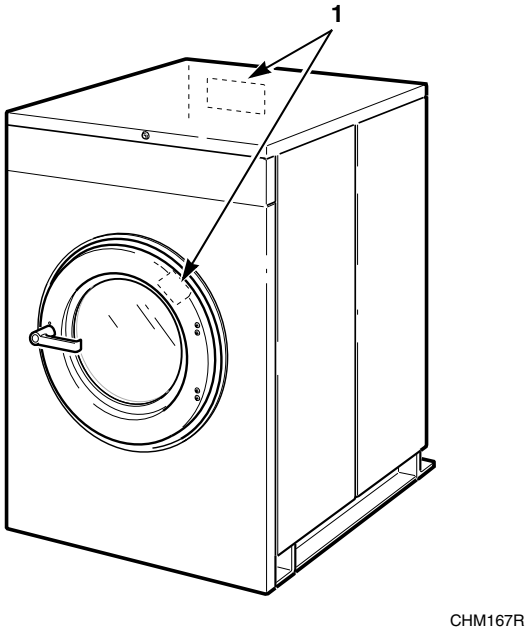
Nameplate Location

The nameplate is located at the rear of the machine and inside door. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance.



1 Nameplate

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, call the following number:

(920) 748-3121
Ripon, Wisconsin

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Safety Information

Explanation of Safety Messages

Precautionary statements ("DANGER," "WARNING" and "CAUTION"), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.

DANGER

DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.

WARNING

WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.

CAUTION

CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT: The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION Manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.

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7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.
9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. Never wash machine parts or automotive parts in the machine. This could result in serious damabe to the basket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
17. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc. or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
21. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
22. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
23. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
24. Always follow the fabric care instructions supplied by the textile manufacturer.
25. Never operate the washer with any guards and/or panels removed.
26. DO NOT operate the washer with missing or broken parts.
27. DO NOT bypass any safety devices.
28. Failure to install, maintain and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

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WARNING

This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.

SW004

IMPORTANT: Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

WARNING

Install the machine on a level floor of sufficient strength. Failure to do so may result in conditions which can produce serious injury, death and/or property damage.

W703

CAUTION

Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.

SW025

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

Use manufacturer-authorized spare parts to avoid safety hazards.

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Operator Safety

WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
2. Check door interlock before starting operation of the machine:
   a. Attempt to start the machine with the door open. The machine should not start with the door open.
   b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
   c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

   If the door lock and interlock are not functioning properly, call a service technician.
3. Do not attempt to operate the machine if any of the following conditions are present:
   a. The door does not remain securely locked during the entire cycle.
   b. Excessively high water level is evident.
   c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

WARNING

Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

SW039

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Operation

Control Panel

Figure 2 shows the control panel for NetMaster Control cardreader machines.

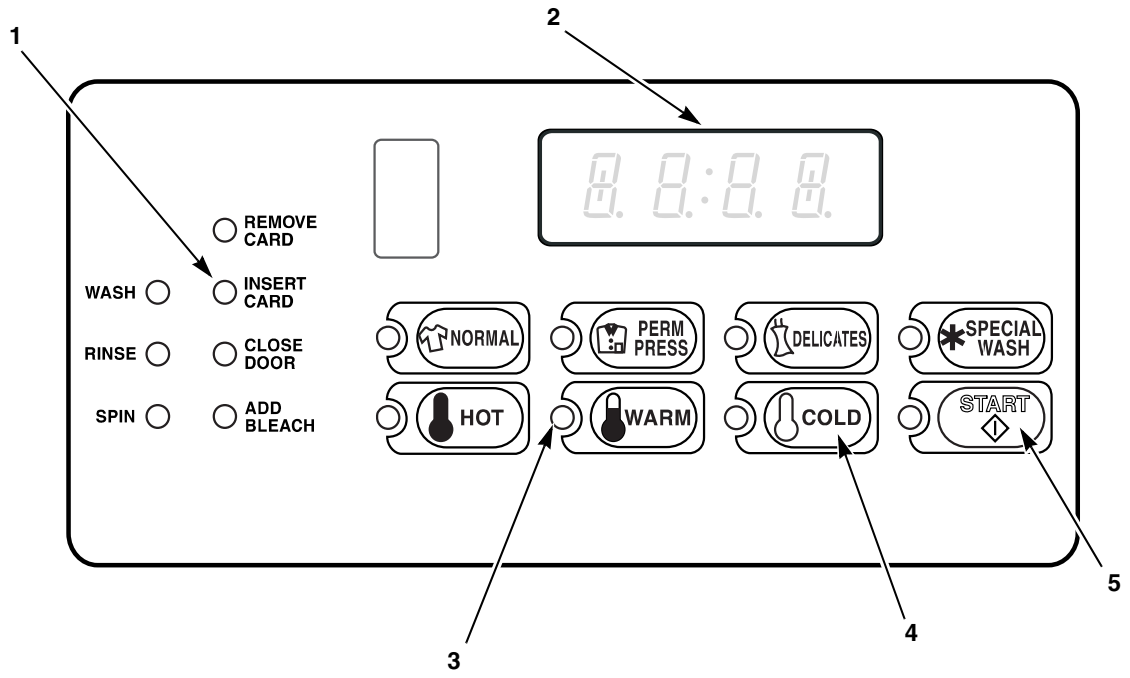
The **VFD display** provides vend price information and remaining cycle time (when a cycle is in progress).

The **status lights** show the current cycle step when a cycle is in progress and direct operator to perform certain actions.

The cycle and wash **selection pads** are used to select the desired cycle and wash temperature.

An **indicator light** in each selection key shows the current selection.

The **START pad** is used to start wash cycles once the vend price has been met.



1	Status Light	**4**	Selection Pad
2	VFD Display	**5**	Start Pad
3	Indicator Light		

Figure 2

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Operating Instructions

1. Turn on the main power at its source (circuit breaker).
2. Push button and turn handle clockwise to open. Refer to *Figure 3*.

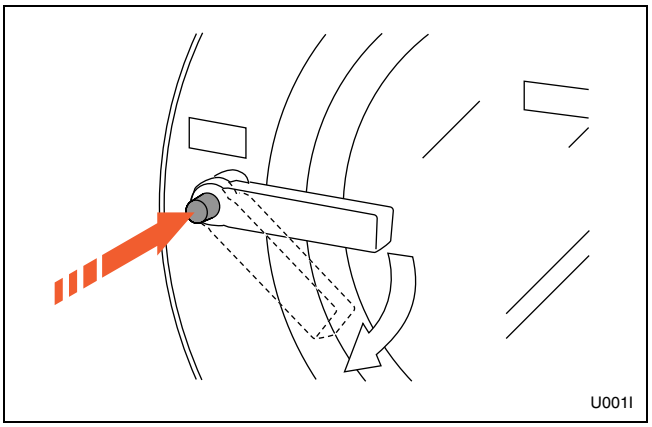

Figure 3

3. Load to capacity whenever possible. DO NOT OVERLOAD. Refer to *Figure 4*.

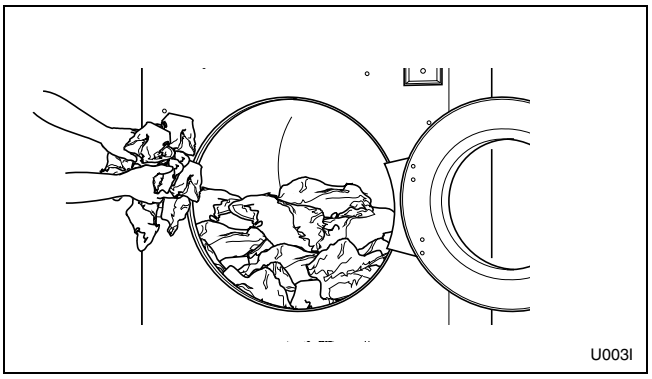

Figure 4

4. Close door and turn handle counterclockwise until button pops out. Refer to *Figure 5*.

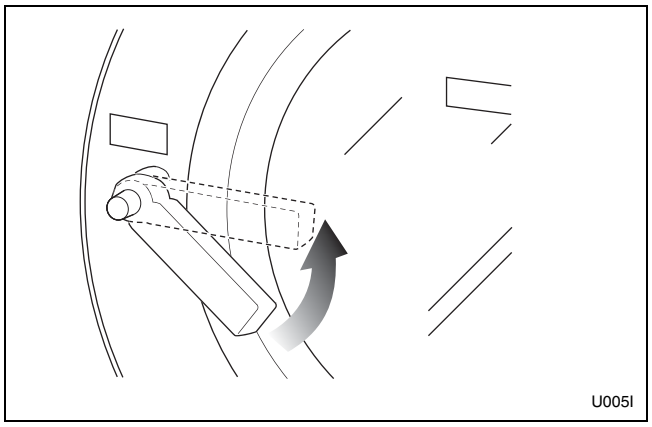

Figure 5

5. Select cycle and temperature. Refer to *Figure 6*.
6. Insert coin(s) or card.

To Insert Money

7. Check pricing as seen on digital display. Refer to *Figure 6*.

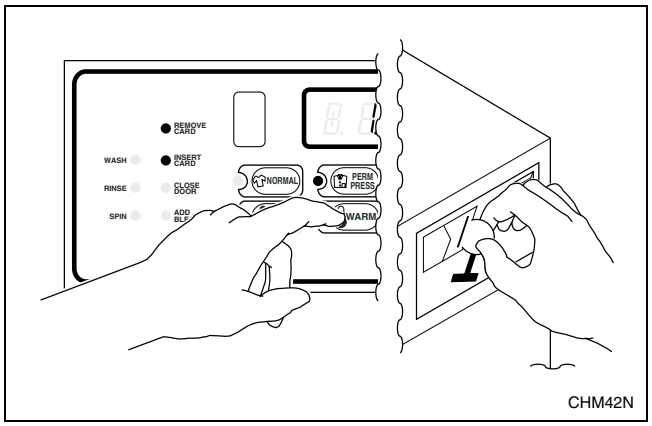

Figure 6

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To Insert Card

8. Insert card into opening. DO NOT REMOVE THE CARD UNTIL "REMOVE CARD" LED IS LIT. Refer to *Figure 7* and *Figure 8*.

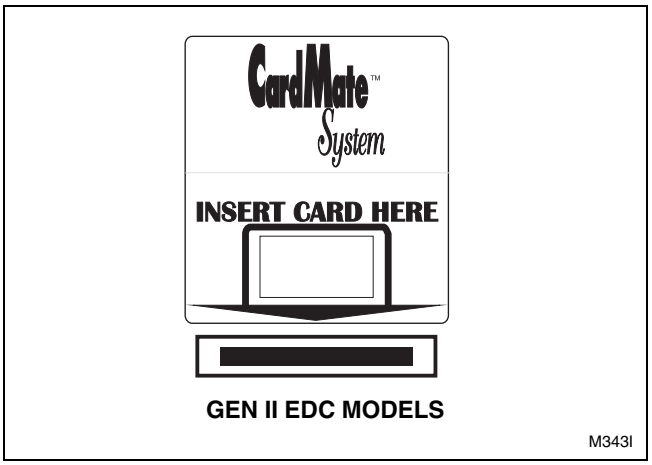

Figure 7

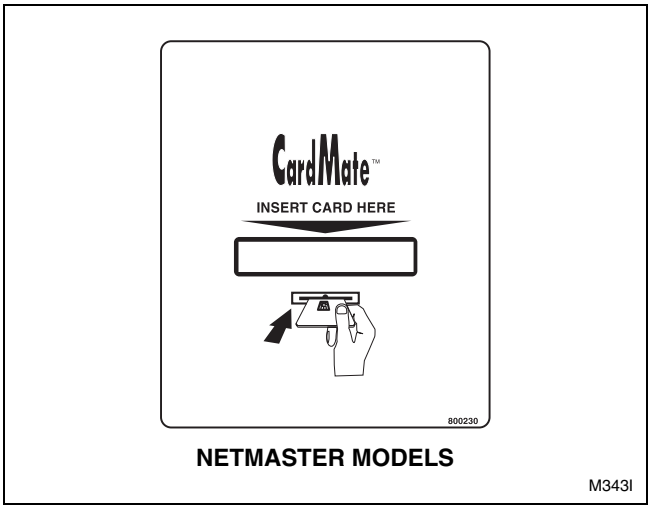

Figure 8

9. Add detergent and softener. Press the START key. Refer to *Figure 9*.

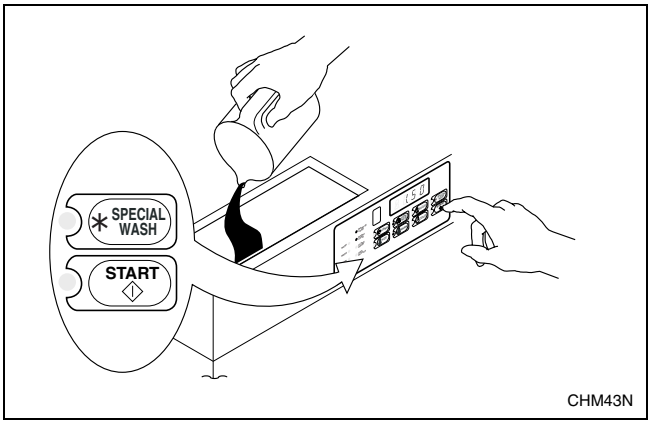

Figure 9

NOTE: If a higher-priced cycle is selected after the full price has been satisfied for current cycle, display will show additional price required and the INSERT CARD light will flash. Insert card to satisfy price for special cycle. If price is not satisfied, the previous cycle selected will begin after one minute.

10. If display flashes "SPEC" then "CYCL," extra options such as high-speed extract, extra wash time, extra rinse time and warm rinse are available. If desired, insert card to meet additional price shown on display. If not desired, wait 30 seconds for earlier cycle selection to continue.
11. Add bleach when ADD BLEACH light is lit. Refer to *Figure 10*.

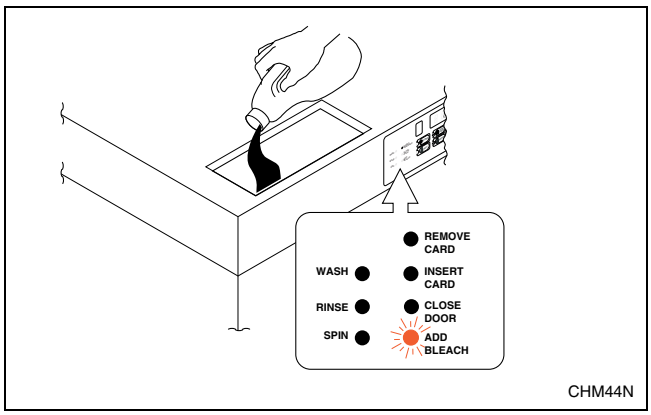

Figure 10

12. Cycle is complete when display reads ":00."

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Power Failure Recovery

If a cycle is in progress and the power fails, cycle status is saved in memory (for a minimum of six years) without power being applied.

If power resumes within 1 minute and 30 seconds, the previously active cycle will continue without having to press START.

If the control was in a fill cycle step and if the pre-programmed pressure switch is not satisfied, the control will start the Fill/Tumble step from the beginning.

If the control was in an intermediate extract step, the rest of the extract step is lost and the control will resume in the next cycle step. However, if in the intermediate extract step prior to the final extract or in the final extract, the control will resume the cycle from the beginning of the previous Drain/Tumble step.

If power resumes anytime after 1 minute and 30 seconds and less than or equal to the time programmed by the owner for the Power Fail Reset, or if the Power Fail Reset feature is disabled, the control will enter into the START Mode at the beginning of the cycle step where the power failed.

If power resumes anytime after the time programmed by the owner, the control will revert to the READY Mode. The Power Failure Recovery feature may be modified by using the Micro-Wand IIIE.

Error Display Indications

An error is recoverable if normal machine function can resume without having to shut off power to the machine. See below for recoverable errors.

- **Err** – When an unrecognized coin is deposited in coin meter, display will show “Err” and the control will be locked out for five seconds. Any valid coin deposits made during this time will still be accounted for when access to the control is restored.
- **E:dL** – When computer is having difficulty controlling door lock mechanism, computer will display “E:dL.” If computer is in START Mode and operator presses START, computer attempts to lock door. After 10 seconds, computer will display “E:dL” while attempting to lock door for one minute. After one minute, if door still isn’t locked, computer stops trying. If any key is pressed or door is opened, the display will change back to the normal START Mode display.

  In DOOR UNLOCK Mode, computer displays “E:dL” after 10 seconds of trying to unlock door for one minute. If any key is pressed, display reverts back to Door Unlock display. Computer again attempts to unlock door. Moving the door handle will usually free the door lock and allow it to be unlocked.

  If door is sensed as unlocked during a cycle, computer will display “E:dL” and terminate the cycle. Computer must be powered down at this point.

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- **E:Ub** – When computer is unable to balance a load during the drain step before the last extract step, computer will run the last extract step at lowest spin speed and display "E:Ub" for one minute after the door is opened.
- **Alrm** – When the computer senses a Break-In Alarm error caused by the service door and Coin Vault switches.
- **Off** – When the computer senses a Break-In Alarm error caused by the service door and Coin Vault switches and the "shut down" option is turned on.

The following errors are non-recoverable. Power to machine must be shut off to reset the control. Consult a qualified technician in non-recoverable error occurrences.

- **E:FL** – When computer has not received input from water level switch indicating that programmed water level has not been reached 61 minutes into fill, computer shuts off water fill valves, aborts cycle, sounds an alarm and displays "E:FL."
- **E:Pr** – When computer receives input from water level switch indicating that switches are opening in an incorrect sequence, computer aborts cycle, sounds an alarm, and displays "E:Pr."
- **E:dr** – When computer has not received input from water level switch indicating an empty condition 31 minutes into a drain step, computer aborts cycle, sounds an alarm and displays "E:dr."
- **E:dO** – When computer senses that door has opened while a cycle is in progress, computer aborts cycle, sounds an alarm and displays "E:dO."
- **E:SP** – When computer fails to receive proper input from output board, computer sounds an alarm and displays "E:SP."
- **E:OP** or **E:SH** – When computer senses a temperature less than five degrees Fahrenheit during the fill cycle step ("OP"); or senses a temperature greater than 220 degrees Fahrenheit during a fill cycle step ("SH"), the computer aborts cycle, sounds an alarm and displays error code. *Models with heat and temperature control only.*
- **E:Ht** – When the computer (heater) requires more than two hours to heat water to programmed temperature, computer turns off heater, continues the cycle to the end and displays "E:Ht." *Models with heat only.*
- **EI:xx** – When the computer senses an Infra-Red Communication error, the display will read "EI:xx" where "xx" indicates the error description as shown in *Table 1*.

Error Display	Error Description
:00	General communication error
:01	Bad transmission
:02	Device timeout
:03	Invalid command code
:04	Expecting upload request
:05	Invalid or out-of-range data
:06	Invalid data code
:07	Error writing to RTC
:08	Error writing to EEPROM
:09	CRC-16 error
:0A	Framing error
:0F	Invalid wakeup or IR disabled

Table 1

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- **EC:xx** – When the computer senses a Card Reader Communication error, the display will read “EC:xx” where “xx” indicates the error description as shown in *Table 2*.

Error Display	Error Description
:00	General communication error
:02	Timeout error
:03	Invalid command code
:05	Invalid or out-of-range data
:06	Invalid data code
:09	Corrupted data error
:0A	Invalid machine type
:19	No Card Reader communication
:20	Unreadable card
:21	Security ID mismatch
:22	Site code mismatch
:23	Card maximum value exceeded
:24	Insufficient memory on card
:25	Card reader malfunction
:26	Card write error
:27	Diagnostic test card write failure
:28	Diagnostic test card read failure
:29	Diagnostic test Memory test failure
:2A	Diagnostic test card interface failure
:2b	Diagnostic test Flash checksum failure
:2C	Bad Biberon or non-Biberon device
:2d	Firmware update failed, s/w intact
:2E	Firmware update failed, s/w not intact
:2F	Firmware updated, but s/w not intact
:30	Timeout waiting for Biberon insertion
:31	Hotlisted card inserted into the reader
:40	No valid firmware in the card reader
:50	Loyalty purse read error
:56	Loyalty purse write error

Table 2

- **Right-most decimal point lit** – When the computer senses a network communication error, the right-most decimal point will be lit.

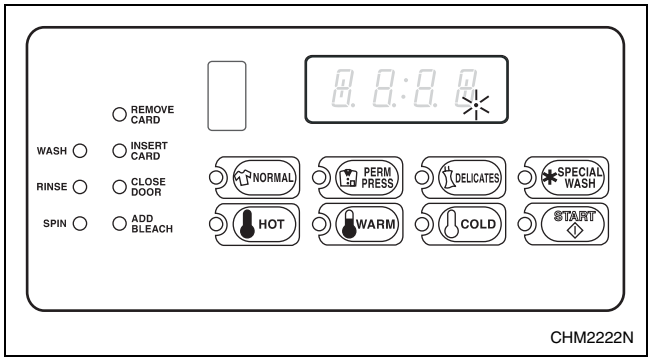

Figure 11

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Maintenance

WARNING

Sharp edges can cause personal injury. Wear safety glasses and gloves, use proper tools and provide lighting when handling sheet metal parts.

W366R1

IMPORTANT: Replace all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

Daily

IMPORTANT: Door lock should be checked daily to ensure proper operation. Also check that all safety and instruction stickers are on the machine. Any missing or illegible safety instructions stickers should be replaced immediately.

Beginning of Day

1. Inspect water inlet valve hose connections on the back of the machine for leaks.
2. Inspect steam hose connections for leaks (where applicable).
3. Check door interlock before starting operation:
   a. Attempt to start the machine with the door open. The machine should not start with the door open.
   b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
   c. Close and lock the door, and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

   If the door lock and interlock are not functioning properly, call a service technician.

End of Day

1. Clean the door gasket of residual detergent and all foreign matter.
1. Clean between the door gasket and the door glass with a damp cloth.
2. Clean automatic supply dispenser lid and general area. Flush dispenser with clean water.
3. Clean the machine's top, front and side panels with mild detergent. Rinse with clean water.
4. Leave loading door open at the end of each day to allow moisture to evaporate.

NOTE: Unload the machine promptly *after each completed cycle* to prevent moisture buildup. Leave loading door open *after each completed cycle* to allow moisture to evaporate.

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Weekly

1. **For variable-speed models only**, clean the AC drive box filter(s) weekly or more frequently as needed.

NOTE: If fan filter service indicator light is on, fan filter must be cleaned immediately to prevent possible damage. Thermostat automatically resets after drive compartment cools down. LED will then extinguish after cycle run.

NOTE: If filter indicator is ignored, repeated resets might shorten life of drive. Clean filter regularly to avoid indicator prompt.

   a. Open the top cover.

   b. Grasp the filter handle and pull straight up to remove filter.

   c. Wash the filter with warm water and allow filter to air-dry. As an alternative, the filter may be vacuumed clean.

IMPORTANT: The control module cover and fan filter must be in place for the fan to properly cool the AC inverter drive. Failure to observe this warning will void the warranty and could lead to expensive AC inverter drive repair.

2. Check the machine for leaks.

   a. Start an unloaded cycle to fill the machine.

   b. Verify that door and door gasket do not leak.

   c. Verify that the drain valve is operating and that the drain system is free from obstruction. If water does not leak out during the prewash segment, the drain valve is closed and functioning properly.

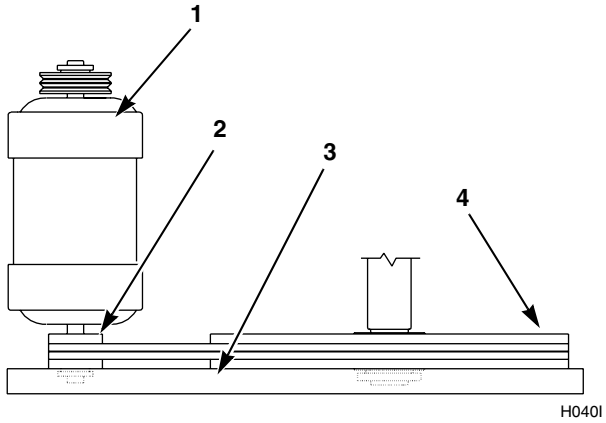
Monthly

NOTE: Disconnect power to the machine at its source before performing the monthly maintenance procedures.

1. Use the following procedures to determine if V-belt(s) require replacement or adjustment. Call a qualified service technician in either case.

   a. Check V-belt(s) for uneven wear and frayed edges.

   b. For groove-pulley drive systems, verify alignment by placing a straightedge across both pulley faces. The straightedge should make contact with the pulleys in four places. Refer to *Figure 12*.



1	Motor
2	Motor Pulley
3	Straightedge
4	Basket Pulley

Figure 12

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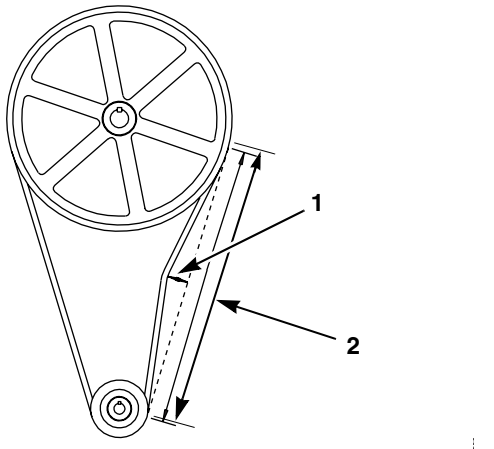
c. For flat-pulley drive systems, verify allowable distance of belt from edge of pulley as shown in *Table 3*.

Flat Pulley Alignment	
Model	**Allowable Distance from Edge**
18 – 40	3/32 in. (2.4 mm)
50 – 60	3/8 in. (9.5 mm)

Table 3

d. **For variable-speed models only**, verify that V-belts are properly tensioned by applying a set force to the belt and measuring the deflection to determine the belt tension. Refer to *Table 4* for the acceptable belt tension ranges. Belt tension measurements should be taken as close to the center of the belt span as possible. Refer to *Figure 13*.



1 Deflection
2 Span Length

Figure 13

Belt Tension Testing for Variable-Speed Models				
Model	**Belt**	**Belt Span**	**Deflection Range**	**Force Min – Max**
35, 40	Motor-Basket	16.9 in. (428 mm)	.31 – .34 in. (7.9 – 8.7 mm)	6.1 – 7.4 lbs. (27 – 33 N)
50, 60	Motor-Basket	16.8 in. (426 mm)	.28 – .31 in. (7.1 – 7.9 mm)	6.1 – 7.4 lbs. (27 – 33 N)
80	Motor-Basket	22.1 in. (561 mm)	.47 – .5 in. (11.9 – 12.7 mm)	4.9 – 7.3 lbs. (21.8 – 31.5 N)

Table 4

NOTE: Hoses and other natural rubber parts deteriorate after extended use. Hoses may develop cracks, blisters or material wear from the temperature and constant high pressure they are subjected to.

2. Check all hoses for any visible signs of deterioration. Any hose showing signs of deterioration listed above should be replaced immediately.

NOTE: All hoses should be replaced every five years.

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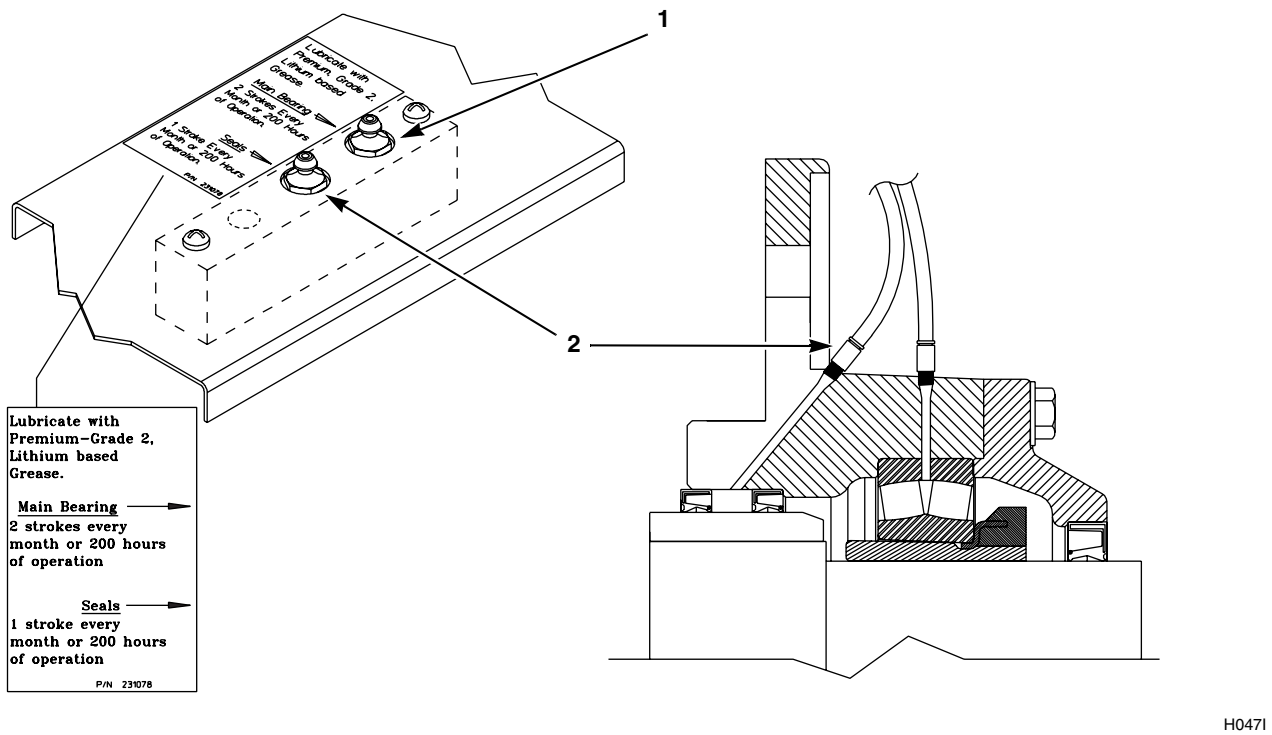

1 Bearing Grease Fitting
2 Seal Grease Fitting

Figure 14

3. **For 80 Pound capacity models only**, lubricate bearings and seals each month OR after every 200 hours of operation. Refer to *Figure 14*.
   a. Use a premium-grade lithium-based #2 grease. Never mix two types of grease, such as petroleum and silicone.
   b. Pump the grease gun slowly, permitting only the following number of strokes:
      - Bearing grease fitting, two strokes
      - Seal grease fitting, one stroke

NOTE: Do not pump the grease gun until grease comes out of the bearing housing. This can result in overlubrication, causing damage to bearings and seals.

4. Remove back panel and check overflow hose and drain hose for leaks.
5. Unlock the hinged lid and check the supply dispenser hoses and hose connections.
6. Clean inlet hose filter screens:
   a. Turn water off and allow valve to cool, if necessary.
   b. Unscrew inlet hose and remove filter screen.
   c. Clean with soapy water and reinstall. Replace if worn or damaged.
7. Tighten motor mounting bolt locknuts and bearing bolt locknuts, if necessary.
8. Use compressed air to clean lint from motor.

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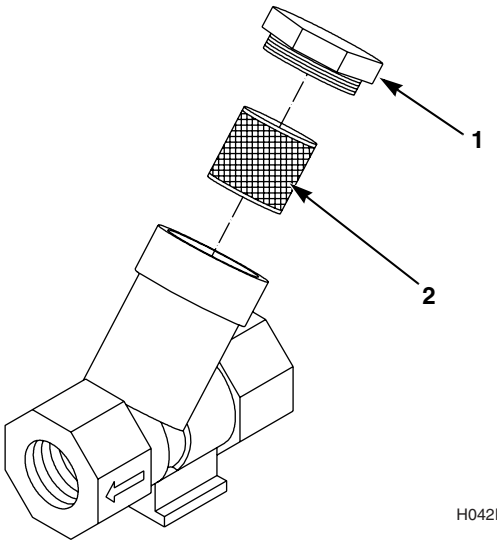
9. Clean interior of machine, both basket and shell, by wiping with a water-soaked sponge or cloth.
10. Use compressed air to ensure that all electrical components are free of moisture and dust.
11. Verify the insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.
12. **For variable-speed models only**, clean AC drive cooling fan blades monthly (more often if required by the condition of the air).
    a. Open the top cover and remove the control module cover.
    b. Gently wipe the fan blades clean with a dry cloth.

Quarterly

NOTE: Disconnect power to the machine at its source before performing the quarterly maintenance procedures.

1. Tighten door hinges and fasteners, if necessary.
2. Using a Teflon-based spray lube, lubricate the door lock by applying the spray to the door lock pin while turning the door handle.
3. Tighten anchor bolts, if necessary.
4. Verify that the drain motor shield is in place and secure.
5. Check all painted surfaces for exposed metal. (Matching gray paint is available from the manufacturer.)
   - If exposed metal is showing, paint with primer or solvent-based paint.
   - If rust appears, remove it with sandpaper or by chemical means and paint with primer or solvent-based paint.
6. Clean steam filter, where applicable. Refer to *Figure 15*.
   a. Turn off steam supply and allow time for the valve to cool.
   b. Unscrew Cap.
   c. Remove Element and clean.
   d. Replace Element and Cap.



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1 Cap
2 Filter Element

Figure 15

7. For variable speed and F-speed models only, measure the out-of-balance switch gap setting and adjust it as needed. The switch gap settings are listed in the ***Installation*** manual, which is supplied with the machine.
8. Check the bearing mounting bolts to make sure they are torqued properly. Refer to *Table 5* for specifications.

Machine Capacity	Bearing	Torque
18-25	All	75 ft.-lbs.
27-60	All	105 ft.-lbs.
80	Front	200 ft.-lbs.
80	Rear	97 ft.-lbs.

Table 5

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Care of Stainless Steel

- Remove dirt and grease with detergent and water. Thoroughly rinse and dry after washing.
- Avoid contact with dissimilar metals to prevent galvanic corrosion when salty or acidic solutions are present.
- Do not allow salty or acidic solutions to evaporate and dry on stainless steel. Wipe clean of any residues.
- Rub in the direction of the polish lines or “grain” of the stainless steel to avoid scratch marks when using abrasive cleaners. Use stainless steel wool or soft, non-metal bristle brushes. Do not use ordinary steel wool or steel brushes.
- If the stainless steel appears to be rusting, the source of the rust may actually be an iron or steel part not made of stainless steel, such as a nail or screw. Tip: Paint all carbon steel parts with a heavy protective coating. Stainless steel fasteners should be used whenever possible.
- Remove discoloration or heat tint from overheating by scouring with a powder or by employing special chemical solutions.
- Do not leave sanitizers or sterilizing solutions on stainless steel equipment for prolonged periods of time.
- When an external chemical supply is used, ensure no siphoning of chemicals occur when the washer-extractor is not in use. Highly concentrated chemicals can cause severe damage to stainless steel and other components with the machine. Damage of this kind is not covered by the manufacturer’s warranty. Locate the pump below the washer-extractor’s injection point to prevent siphoning of chemicals into the machine.

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